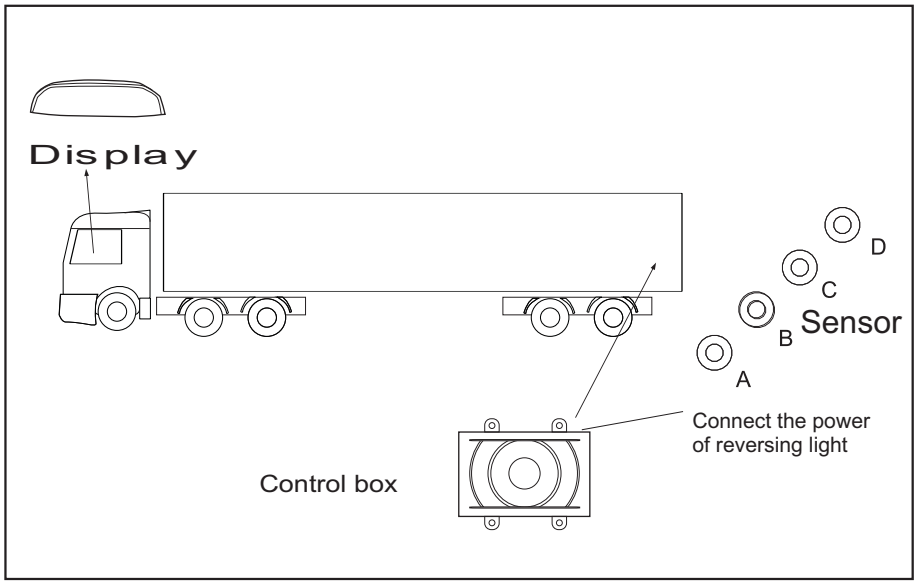
# H-113

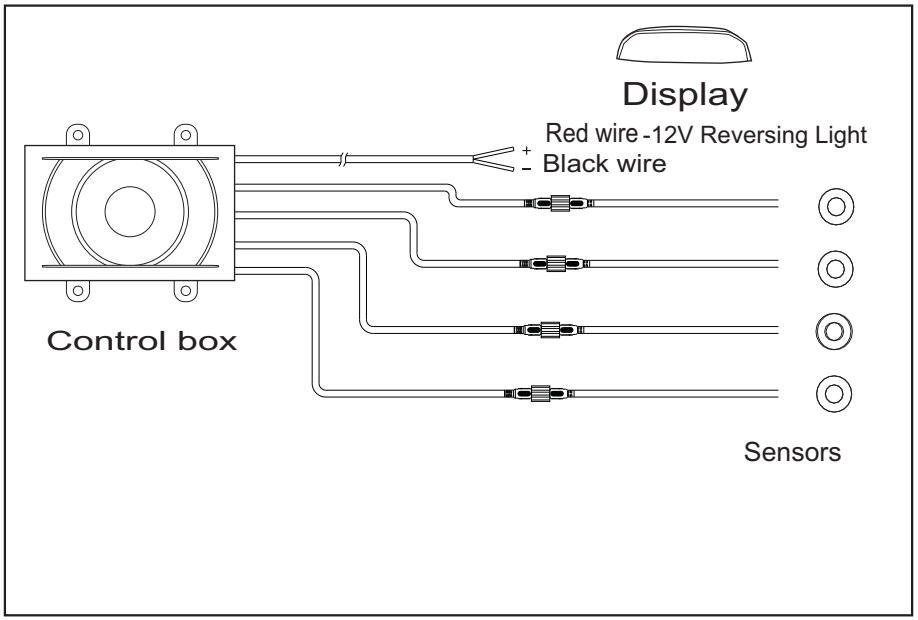
## Wireless Parking Sensor System For Truck

## USER'S MANUAL

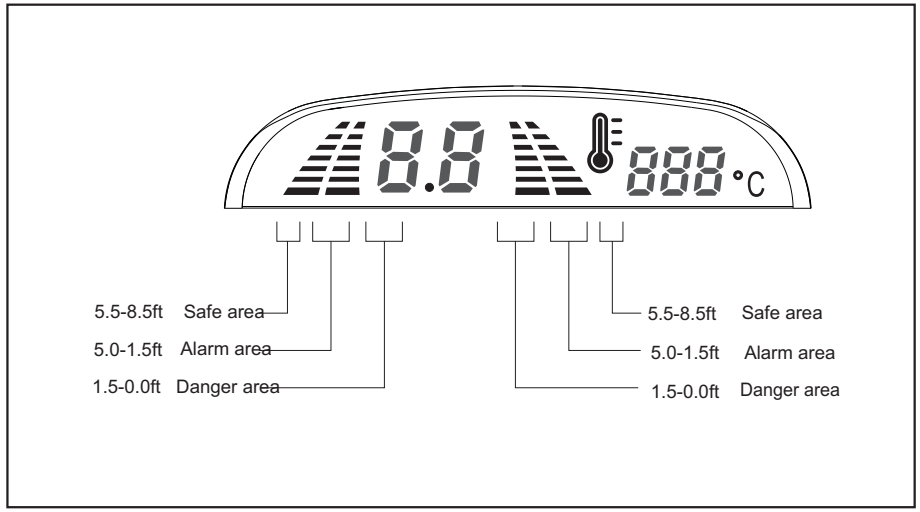
ISO 9001:2000 FM 78496
QS 9000:March 1998 FM 78495
Printed in China

## GENERAL INSTALLATION DIAGRAM

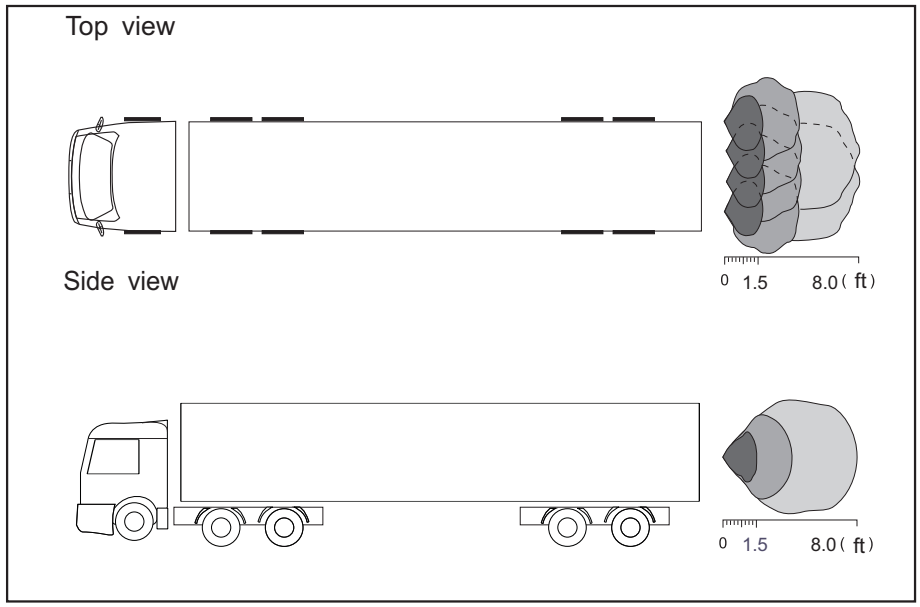


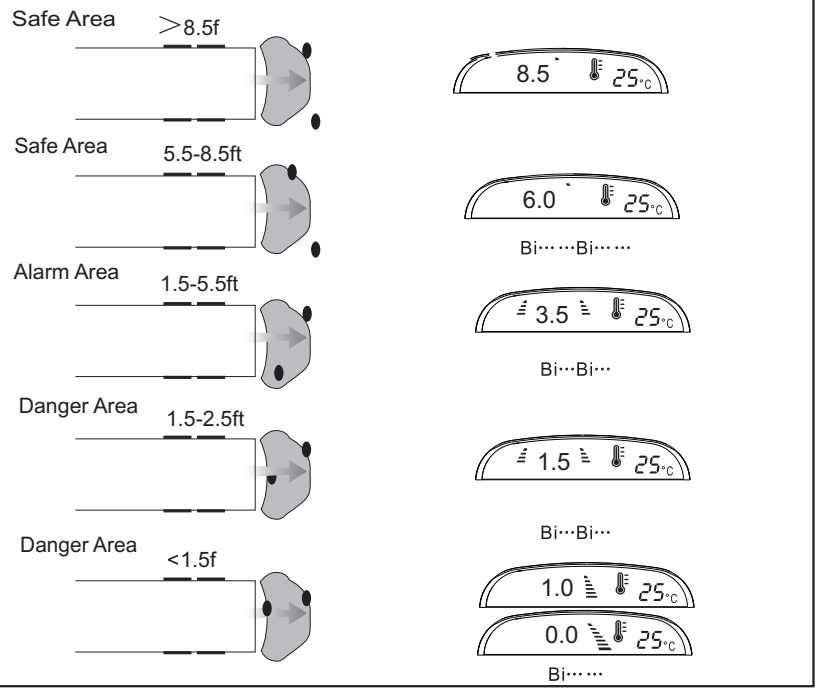

## LED DIGITAL DISPLAY



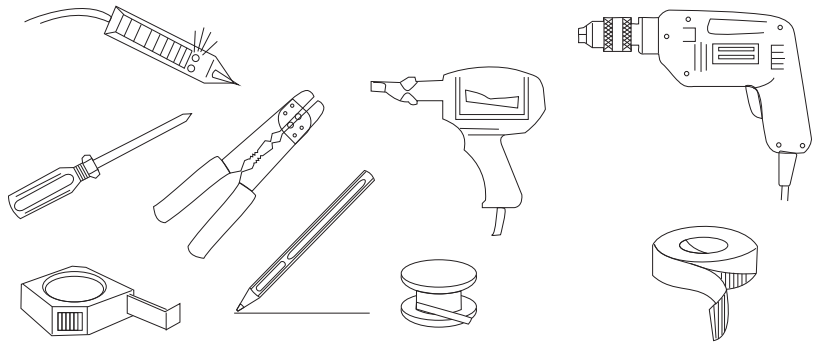

## DETECTING RANGE



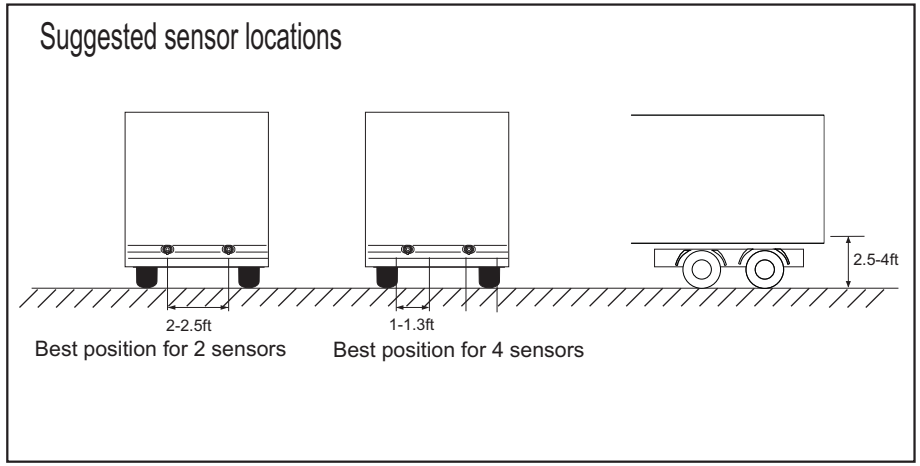
## DISPLAY STATUS

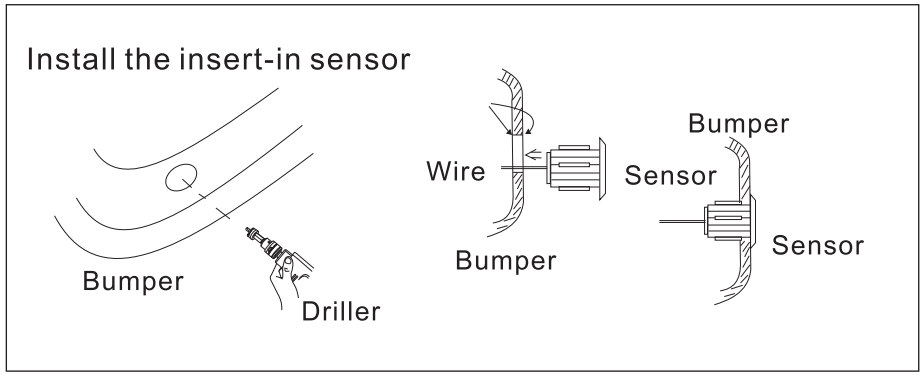


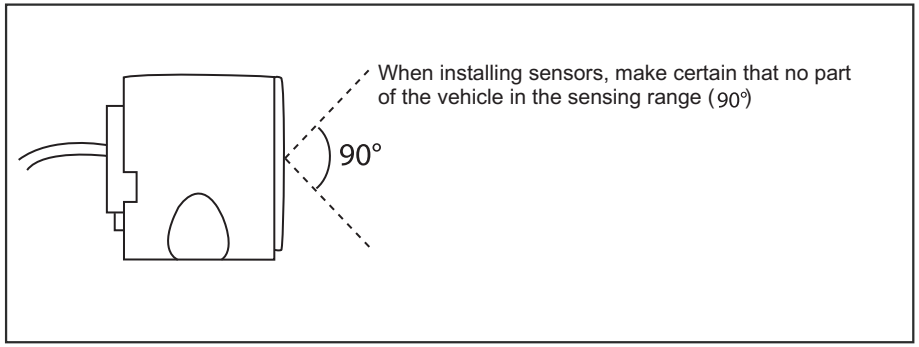

## INSTALLATION TOOLS



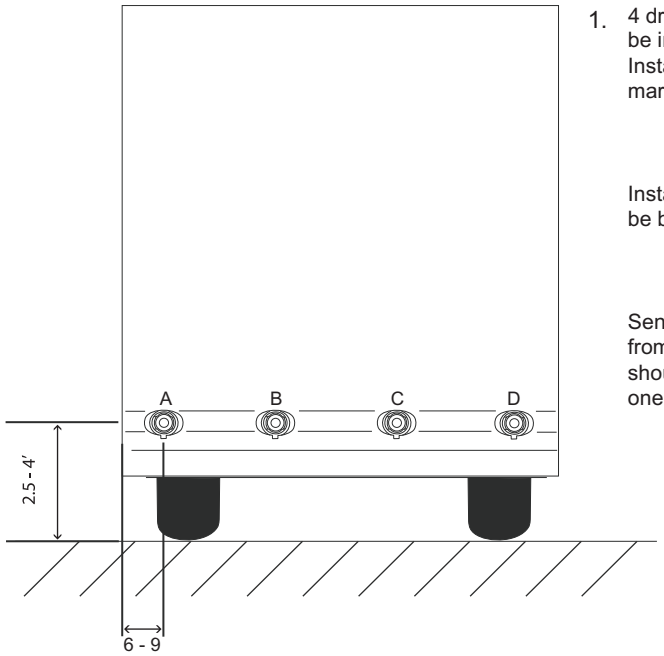
## SENSOR INSTALLATION



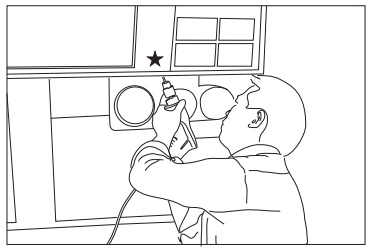
# SENSOR INSTALLATION - CONTINUED




1. 4 drilled holes (A,B,C,D) should be in the same horizontal line. Install sensors according to their markings on the cable: A, B, C, D.

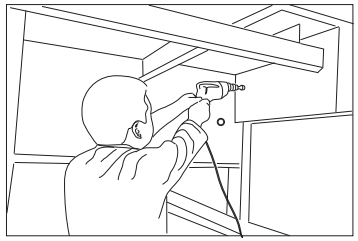
Installation height for sensors should be between 2.5 - 4?above ground.

Sensors A & D should be located 6-9 from outer edge of vehicle. Sensors B & C should be equally spaced between one another.

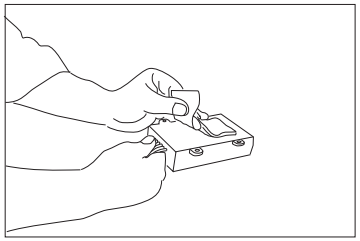


2. Choose suitable drilling position

# CONTROL BOX INSTALLATION AND CONNECTION



1、Choose suitable control box position of vehicle, then drill as required for sensor connection cables.

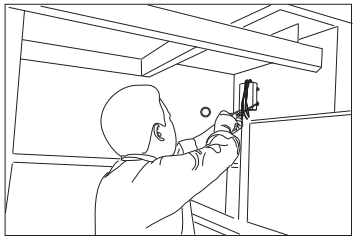


2. Route sensor cables through drilled hole to vehicle interior.

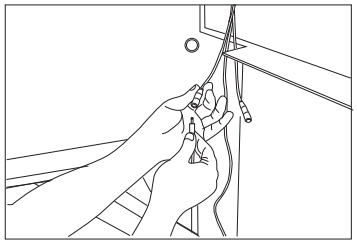
IMPORTANT:

CONNECTION TO CONTROL BOX MUST BE IN THE CARGO AREA OR OTHER PROTECTED LOCATIONS.

## CONTROL BOX INSTALLATION - CONTINUED



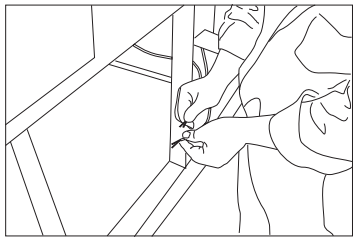
3 . Attach control box using appropriate screws / fasteners.



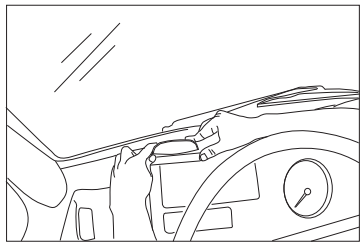
4. Connect sensor cables and control box

Be careful to match the marketings on the cables (A,B,C,D)

## POWER CONNECTIONS



5. Connect the RED wire from control box to power source of reversing light. Connect BLACK wire to vehicle ground.

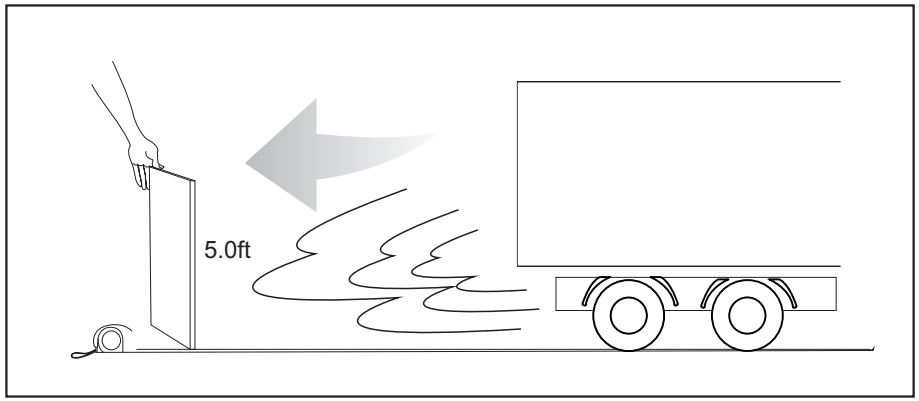


2. Attach the display unit to the dashboard. Connect RED wire from display unit to ignition - switch power source. Connect BLACK wire to vehicle ground.

Locate optional temperature sensor if desired.

3. Power up and test

## TEST SENSOR DETECTING



# H-113

## PARKING SENSOR SYSTEM

**H-113** consists of ultrasonic sensors, display and control box .This system detects the distance between the vehicle and the rear obstructions by the ultrasonic sensors. The distance will be shown by the digital display, and by audible signal

## MAIN FEATURES

- Digital LED display
- Direction of obstruction indicated if left ,middle or right.
- Bars display direction & distance of obstruction
- Audible alarm sound
- Wireless communication between control box & display unit

## TECHNICAL SPECIFICATIONS

- Operating range: DC 9~32V
- Operating current: 20-150mA @ 12V
- Detection distance:0.5~8.0f
- Ultrasonic frequency: 40KHz
- Working temperature: -22~+158℉
- Display size: 3.7x1.9x0.8 inches
- Sensing resolution 0.5ft

## ALARM MODE

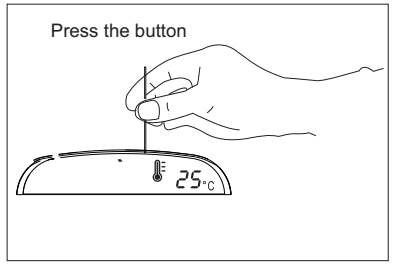
G: Green Y: Yellow R: Red

| Stage | Distance | Area | Alarm sound | Digital Display | Alarm Color |
|---|---|---|---|---|---|
| 1 | 0.0 ~ 0.5f | Danger area | Bi…….. | 0.0 ~ 0.5 | All LED light up |
| 2 | 1.0f | Danger area | Bi…….. | 0.5 ~ 1.5 | 3 G+2 Y+ 1 R |
| 3 | 1.5 ~ 2.0f | Danger area | Bi…Bi… | 1.5 ~ 2.5 | 3 G+2 Y |
| 4 | 2.5 ~ 3.0f | Alarm area | Bi….Bi…. | 2.5 ~ 3.5 | 3 G+1 Y |
| 5 | 3.5 ~ 4.0f | Alarm area | Bi……Bi…… | 3.5 ~ 4.5 | 3 G |
| 6 | 4.5 ~ 5.0f | Alarm area | Bi……Bi…… | 4.5 ~ 5.5 | 2 G |
| 7 | 5.5 ~ 8.0f | Safety area | no voice | 5.5 ~ 8.5 | 2 G |
| 8 | 8.5 ~ ∞ | Safety area | no voice | no display | no display |

## ID LEARNING

Each control box has a unique ID to ensure the confidentiality and reliability of data transmission during communication with corresponding display. The display has the function of learning ID, in order that the user could replace the display or control box if necessary. Operation as following:

1. Connect control box according to User's Manual, then put the car into reversing to make control box enter working status;
2. Connect the display with power, press the button on display back 1 time continuously, the display system will store the ID of control box automatically. See picture A




picture A